

November 13, 2009

US EPA, Region 1 PWTF GP Processing Municipal Assistance Unit (CMU) 1 Congress Street, Suite 1100 Boston, Ma. 02214-2023

Re: BROCKTON WATER/ DMR (MAG640029) NOI

Dear Sir or Madam:

Enclosed please find the Brockton Water Filtration Plant NOI submission for MAG640029.

Should you have any questions please do not hesitate to call me @ (781) 679-0677 or (781) 447-2124.

Sincerely,

Michael D. Sessine Project Manager Brockton Water Plant

MDS

Enc;

cc: Ms. Kathleen Keohane, Office of Watershed Management

Enc:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND - REGION I ONE CONGRESS STREET, SUITE 1100 BOSTON, MASSACHUSETTS 02114-2023

Request for General Permit Authorization to Discharge Wastewater (Notice of Intent to be covered by the General Permit (NOI))

Potable Water Treatment Facility (PWTF) NPDES General Permit No. MAG640000 and NHG640000

A. Facility Information TRANSMITTAL # WO67500

1. Facility Owner:		
Name City of Brockton	e-mail mthoreson@ci.brockton.ma.us	
Street/PO Box 45 School Street/City Hall	City Brockton	
State Massachusetts	Zip Code 02301	
Contact Person Michael L Thoreson	Telephone Number 508 580 7135	
2. Facility Operator (if different from al	pove):	
Name Veolia Water NA NE LLC	e-mail (optional) keavin.nelson@veoliawaterna.cor	n
Street/PO Box 1115 West Chestnut	City Brockton	
State Massachusetts	Zip Code 02301	
Contact Person Keavin Nelson	Telephone Number 508 894-0044	
3. Facility Data (attach topographic may	o or other map showing facility and discharge location((s)):
Name Brockton Water Filtration Plant	e-mail (optional)	
Street/PO Box 55 Cinder Lane	City Pembroke	
State Massachusetts	Zip Code 02359	
Contact Person Michael D Sessine	Telephone Number 781 679-0677	
Facility Latitude N42.01344	Facility Longitude W70.78782	
No 2. Is the discharge a "new discharge" 3. Is the facility covered by an individ	as defined by 40 CFR Section 122.22? Yes No No No No No No No No No	/) No_ √
B. Discharge Information		
1. Name of Receiving Waterbody Silver L	ake	Management Association and Ass
2. Type of Receiving Waterbody (e.g. s	tream, lake, reservoir, estuary etc) Reservoir	
3. State Water Quality Classification: A	Freshwater: _ X Marine Water:	-
	which the owner/applicant is seeking coverage, including GP which need to be authorized for discharge (and variety).	
Appendix IV – NPDES Potable V	Vater Treatment Facility General Permit	Page 2/5 10/28/2009

effluent limits and other conditions of used on the wastewater prior to discharge facility, please include the number are from the entry point of the discharge backwash cycle for any combination. Backwash water, gravity thickener supernate and of the west end in parallel and flows to the east end over set of stop logs and into a pipe and into Silver Lake (sour From there the residuals settle and are pumped to The gravity thickener supernate flows over a set of supernate water is sent in series through the lagoor.	large including lagoons, and size of lagoons; the size into the lagoon to the end of number of filters. (at ying bed filtrate flows to a diverter to a set of stop logs into a discharge boxe.) The residuals are drawn off of the a series of drying beds. The drying weirs and to the lagoons. Present to a pump intake located in the	baffles, filter presses etc. If lize and elevation of the entry atry point to the receiving was tach extra sheets if necessary box and subsequently into two lagoons. Tox allowing the residuals to settled out. Fro sedimentation basins for two hours per day a good filtrate is sent either to the lagoons by we are recycling where the filtrate and west end of lagoon # 2 where it is pumper.	agoons are used at the pipe; the time of travel ter; and the length of (7): The water enters the lagoons at m there it flows over a common and sent to a gravity thickener tank. It is or directly to the head works.
5. Please provide a diagram depicting	the treatment methods, o	utfalls, and receiving water.	
OUTFALL # Latitude 42.0119		each outfall (attach addition Longitude -70.4846 Longitude	
For each outfall:			
7. What is the proposed sampling loca At the common basin to single discharge pipe. Once po			r collecting samples:
C. Effluent Characteristics 1. List here and attach information on any dechlorination, control of biological grov Sodium Hydroxide - PH adjustment, Sodium Hypochlor 2. Please report here any known remediately.	wth, and control of corrosion rite - disinfection, Phosphate Ortho	n and scale in water pipes): PCH Poly Blend - corossion control & sequeste	180 - coagulant, ration
3. Are aluminum-containing coagulant		esNo	
4. Does the discharge contain residual			
5. Does the facility provide treatment to			
6. Are phosphorus-containing chemica	ls added to the treated w	ater at this facility? Yes	No
 All applicants must attach a separate aluminum (in micrograms per liter) t results. See Section 4.4.5 of General 	aken within the last six n	nonths. Do not include diluti	
8. Please include the following effluent	data for each outfall:		
Characteristic (report if measured)	Average Monthly	Maximum Daily	
Discharge Flow (gpd)			
TSS (mg/l)			
pH (s.u.)	(min)	(max)	
Total Recoverable Aluminum (ug/l)			
Total Residual Chlorine (ug/l)			
(continued on next page)			
Appendix IV – NPDES Potable	Water Treatment Fac	cility General Permit	Page 3/5

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8. Continued					
Characteristic	(report if measured)				
Whole Effluen	t Toxicity (%)	LC50	and/or	C-NOEC	
ten year low	flow (7Q10) of the rece	iving water, the dilution t	factor, ar	provide the reported or calculated seven day- nd attach any calculations used to support calculations and additional information):	
7Q10	N/A cfs	Dilution Factor 10:1		cfs	
D. Endange	ered Species Act Eli	gibility			
	der this general permit?	of the PWTF GP, under		eriterion listed in Part II are you eligible for E F	
2. If you selec	ted criteria D or F, has c	onsultation with the fede	ral servi	ces been completed? Yes No	
	finding that the discharg			sheries Service was completed, was a written et" listed species or critical habitat received?	
	umentation of ESA eligible e General Permit.	bility as described below	and requ	uired at Part 3.4.1 and Appendix I, Part III,	
Criterion A -	present: A copy of the facility and discharges	most current county spec are located. You must als	ies list p so includ	federally-designated critical habitat are pages for the county(ies) where your site or le a statement on how you determined that our site or facility or discharge locations.	
Criterion B –	and/or NMFS's, as app		on or co	a prior project: A copy of the USFWS's neurrence on a finding of "unlikely to ion.	
Criterion C –		y a Section 10 Permit: A mitting the ESA Section		f the USFWS's and/or the NMFS's, as orization.	
Criterion D -	Concurrence from the Service(s) that the discharge is "not likely to adversely affect" federally-listed species or federally-designated critical habitat (not including the four species of concern identified in Section I of Appendix I): A copy of the USFWS's and/or the NMFS's, as appropriate, letter or memorandum concluding that the discharge is consistent with the general permit's "not likely to adversely affect" determination.				
Criterion E –		ite or facility (or area inc		ppy of the documents originally used by the your site) to satisfy the documentation	
Criterion F -	concern, as identified in	n Section I of Appendix I: ee with the applicant's de	А сору	not likely to adversely affect" species of of the USFWS and/or the NMFS, as ion that the discharge is "not likely to	

E. National Historic Properties Act Eligibility

1. Using the instructions in Appendix III of		F GP, und	der which criterion listed in Part III a	re you eligible
for coverage under this general permit?	/			
	1	2	3	
Have any State or Tribal historic preser If yes, attach the results of the consultati	rvation offic			No_

F. Certification

I certify that the discharge for which I am seeking coverage under the general permit consists solely of a surface water discharge from a potable water treatment facility. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	nn D.	Sessio	Digitally signed by Michael D Sessine Date: 2009.11.11 09:57:37 -05'00'	Date 11/11/09	
Printed Na	me and Tit	e Michael D Sess	ine		

Federal regulations require this application to be signed as follows:

- 1. For a corporation, by a principal executive officer of at least the level of vice president;
- 2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
- 3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Note: Permits No. MAG640000 and NHG640000 may be found at www.epa.gov/region1/npdes/pwtfgp.html



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Ada by Google

Silver Lake, Massachusetts

Silver Lake is a reservoir located in Plymouth County, at N42.01344° W70.78782° (NAD83) and at an elevation of 52 ft MSL.

Feature Type:

Reservoir

Latitude:

N42.01344° (NAD83 datum)

Longitude:

W70.78782°

Elevation:

52 ft MSL

County:

Plymouth County,

USGS 24K Map: USGS 24K MRC:

You can view this location or feature in our Topographic Map Viewer now.

Note: Coordinates displayed above are referenced to NAD83 datum.

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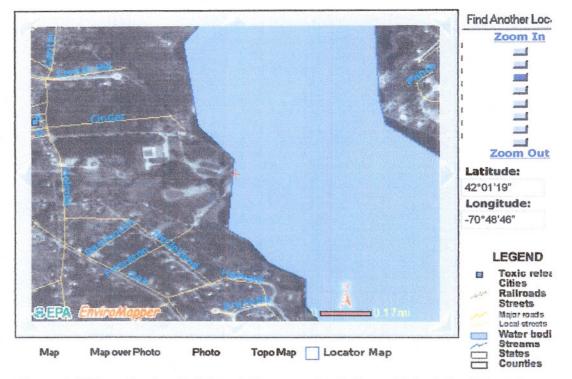
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3. ENVIRONMENTAL FIVESTIVIT PARTY

EPA Home > Toxics Release Inventory Program > Reporting Materials > Facility Siting Tool



Your goal: Get the center of you facility's production area centered in the map/photo window at the maximum z level. This will allow you to get the most precise coordinates.

Zoom-in/out: Select Zoom In, Zoom Out Bar on the right side.

Recenter: When you are not at the maximum zoom-in level, click on the map/photo to center.

Move map/photo: Click the arrow controls around the map/photo window to move in the direction you choose (North, South, East or West or NW, NE, SW, SE).

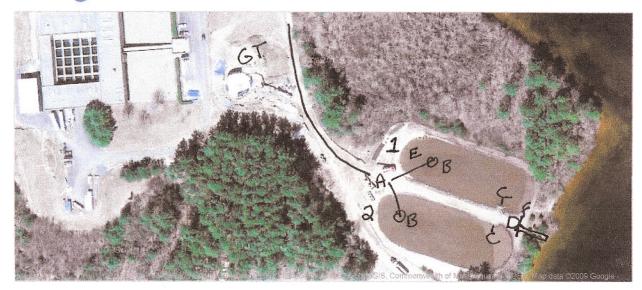
Mark location: Once you are at the maximum zoom-in level, click the center of the facility production area on the photo. This will mark the coordinates in the Latitude and Longitude fields.

MAD Code Information

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Last updated on Tuesday, March 02, 2004 URL: http://epamap20.epa.gov/tri/emtri.asp

Google maps



halifax ma

A. DIVERTER BOX

B. RISER WHERE WATER ENTERS LAGOONS

C. STOP LOGS

D. DISTRIBUTION BOX | DISCHARGE PIPE

E. RECYCLE DUMP INTAKE F. RECYCLE STOP LOGS

SCENARIO 1 - RECYCLING: BACKWASH WATER ENTERS 2B, FLOWS OVER STOP LOGS 2C, ENTER LAGOON I AT IC AND FLOWS TO RECYCLE PUMP INTAKE E WHERE IT IS SENT BACK TO HEAD WOKES. RESIDUALS FROM SEDIMENTATION BASINS ENTER THE SCENARIO 2 - DISCHARGE: DISCHARGE WILL ONLY OCCUR SHOULD

AN ISSUE AKISE WITH RECYCLE, WATER ENTERS THE LAGOONS AT 18 + 28. From THERE IT FLOWS OVER THE STOP LOGS C AND INTO THE COMMON DISCHARGE BOX, INTO A PIPE WITH FLOW METEL, AND OUT TO LAKE. SAMPLE WILL BE TAKEN FROM WATEL FLOWING OVER D BOX STOP LOGS COMMON TO BOTH LAGOONS.

SCENARIO3 - A COMPINATION OF 1 +2. http://maps.google.com/maps?t=p&utm_campaign=en&utm_medium=ha&utm_source=e... 11/11/2009 NPDES GP MAG640029 DATA 2009

	PH		TSS		Aluminum	Flow/MGD	Chlorine	
	Min	Max	MO AVG	Daily Max	Daily Max	Daily Max	MO Avg	Daily Max
an-09	6.3	7.2	5	10	0.6	0.684	42	100
eb-09	6.69	6.7	3	5	0.039	0.439	52	80
lar-09	6.4	6.7	7	11	1.02	0.554	45	140
pr-09	6.2	6.5	9	12	0.5	0.55	5	20
lay-09 *	7.4	7.4	2	2	0.18	0.682	10	10
une-09 **	See table	**	**	**	**	**	**	**
ul-09	**	**	**	**	**	**	**	**
ug-09	**	**	**	**	**	**	**	**
ep-09	**	**	**	**	**	**	**	**
ct-09	**	**	**	**	**	**	**	**
ov-09	**	**	**	**	**	**	**	**
ec-09								
VG	6.6	6.9	5.2	8.0	0.5	0.582	31	70

Table:		
*	limited Samples (single sample), Start of Recycle	
**	No Flow - Recycling back to head works.	
	Maximum	
	Minimum	
	Average	

Note: recycle system went on line in early May 2009. Process coagulant was changed from Aluminum Sulfate/Sodium Hydroxide combo to PCH 180.